

## **Sven O. Bader**

- Technical Consultant, Orano Federal Services, LLC., Charlotte, NC.
- BS, Masters, and PhD in Nuclear Engineering, North Carolina State University
- Presently working on the backend of the nuclear fuel cycle with focus on advanced reactor used/spent fuel treatment activities including: recycling/reprocessing of used nuclear fuel (UNF), conditioning of spent nuclear fuel (SNF) for alignment with disposal waste criteria, and the licensing and safety analyses needed to support the backend of the fuel cycle for these advanced reactors (e.g., spent fuel post-reactor processing facilities, spent fuel post-reactor handling facilities, spent fuel pools, spent fuel storage installations, spent fuel dry storage systems, spent fuel transportation systems, etc.). In addition, continue to advance recycling activities through work on industrial and medical isotope recovery from UNF, optimization of existing processes (e.g., use of voloxidation, advanced gas treatment processes), separation of long-lived and repository burdensome isotopes for transmutation, and the continued pursuit of regulatory clarity for reprocessing in the U.S.
- Professional Engineer, Nuclear Engineering, NC.
- ANS:
  - Vice-Chair Public Policy Committee (PPC)
  - Vice-Chair of the High Level, GTCC, Low Level, & Mixed Waste Subcommittee within the Fuel, Waste, and Decommissioning Consensus Committee (FWDCC)
  - Member of Executive Committee for the Professional Divisions Committee
  - Member of ANS 57.11 (Standard for Integrated Safety Analysis for non-reactors) standards committee
- Electric Power Research Institute (EPRI) Extended Storage Collaboration Program (ESCP)
  - Vice-Chair of Fuels sub-committee
  - Leader of the Focus Area on Backend for Accident Tolerant, High Enriched, and Higher Burnup Fuels for LWRs
- Member of Nuclear Energy Institute's (NEI):
  - Recycling for Advanced Reactors Task Force, 2020 – present
  - Used Fuel Transportation and Consolidated Interim Storage Task Force, 2017 – present
  - Advanced Reactor WG, 2020 – present
  - GC-859 Task Force (DOE SNF Data Collection), 2014 – 2016
  - Closing the Fuel Cycle Task Force (support NRC rulemaking for recycling facilities, SECY-09-0082), 2008 - 2013